## *Results for the 12'x160' circular tank with ramp:*

### Circular tank:

Tank Diameter = 160 ft
Tank Wall thickness = 12 in (actual)
Tank Height = 12 ft
$f_y$= 60,000 psi
$f'_c$ = 4,000 psi

| Horizontal Steel = #4 rebar<br>Steel shown in table must be placed in each face of the wall | | |
|---|---|---|
| Bar # | Spacing (in) | Distance from finished floor (ft - in) |
| 1 | 3 | 0' 3" |
| 2 | 12 | 1' 3" |
| 3 | 12 | 2' 3" |
| 4 | 10 | 3' 1" |
| 5 | 10 | 3' 11" |
| 6 | 10 | 4' 9" |
| 7 | 10 | 5' 7" |
| 8 | 10 | 6' 5" |
| 9 | 10 | 7' 3" |
| 10 | 9 | 8' 0" |
| 11 | 9 | 8' 9" |
| 12 | 9 | 9' 6" |
| 13 | 9 | 10' 3" |
| 14 | 9 | 11' 0" |
| 15 | 9 | 11' 9" |

Vertical Steel = #4 @ 12" O.C. in each face.
Dowels "L" bars from tank to footing shall be #4 @ 12" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 13'-10" long @ 6" O.C. vertically in each mat of steel (8 total)
4-#6 bars x 20' long @ 6" O.C. horizontally in each mat of steel (8 total)
4-#6 bars x 6 feet long @ 6" O.C. at a 45 degree angle in each mat of steel (8 total).